

3008(a)/3008(h) and Post-Closure

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TETRATECH

3008(a) CAFO

Section VII identifies9 tasks to be completed

- Post Closure application
- Initial ScopingMeeting
- Initial ScopingMeeting Summary
- Draft & Final CAS WorkPlan
- Draft & Final updatedRMP
- Draft & Final updatedCRP and SMP

Tasks are based on approach described in EPA Corrective Action Strategy (CAS)



General Approach to Expansion Area

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- 2. Prepare a WPto investigatethose Exhibit 1 areas that are not NFA ("CAS WP")
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Initial Scoping Meeting

- CAFO, Section VII, Para. 30 directs FPC-TX to participatein an initialscoping meeting with EPA and TCEQ. Specifically,FPC-TX is directed to:
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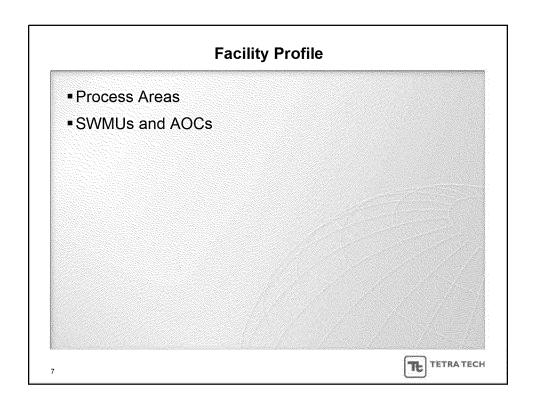
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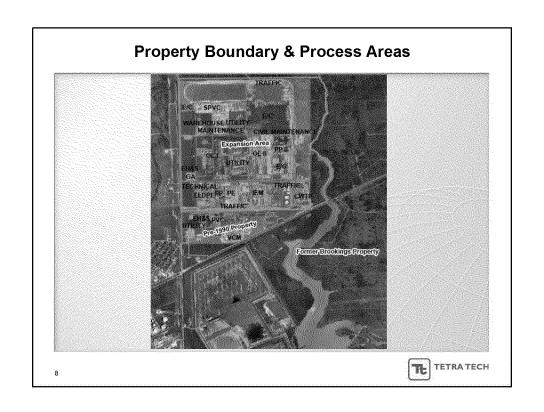


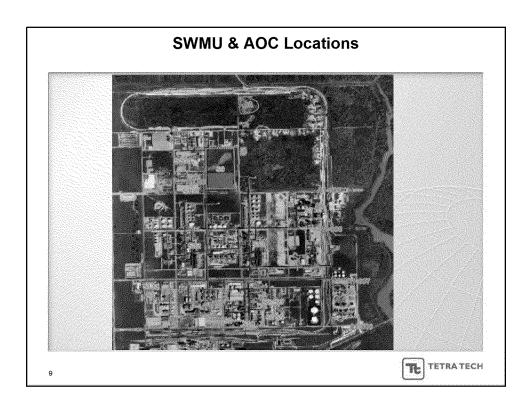
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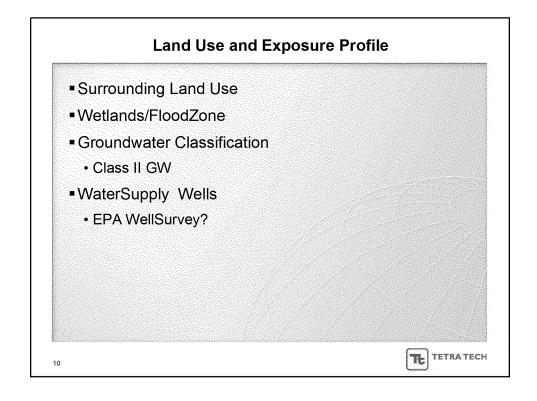
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 - PhysicalProfile
 - · Release Profile
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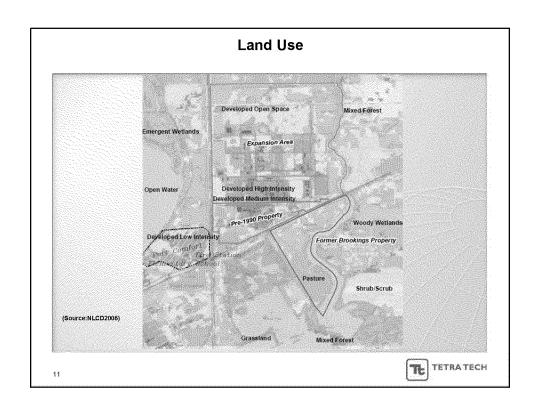


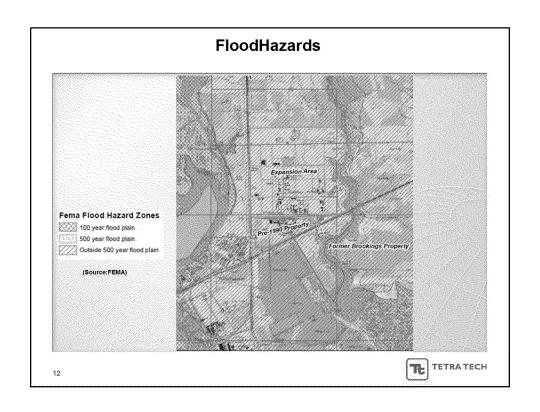




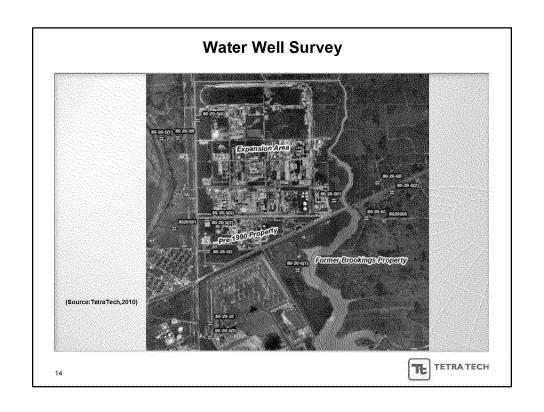








Well Survey Distance from FPC-TXFacility Water Level (feet below State Well Well Depth Owner Well Use Aquifer Number (feet) (feet)* Industrial NA Formosa Plastics Corp OnSite 1230 OnSite eaumo NA Formosa Plastics Corp Industria 210 400 Richards Drilling Oil Field/Supply 3569 20 20 Formosa Plastics Corp Domestic/Industri Onsite 4364 NA 470 80-20-5(3) Richards Drilling Company NA NA 20.0 105.0 Other - S4 F.W.A. Drilling Co. Supply 160 272 438 80-20-6(2) Mobile Production Industrial 3535 40.0 Bay City Drilling Company Bay City Drilling Company 3100 1960 NA NA 0.0 Industrial Industrial Maude B. Traylor Stock 117 3eaumon 0.0 D.L. Taylor Formosa Plastics Corp Public Supply Onsite 160 Carl Snyder NA Domestic Elevation was estimated from contours on USGS topographic map. NA - Not Available TETRA TECH Tt 13



Ecological Profile

- Ecological Exclusion Criteria Worksheet
 - Included as AppendixC of the approvedRMP
 - Facility meets the exclusion criteria, thus investigationin support of potentialecologicalrisks is not warranted
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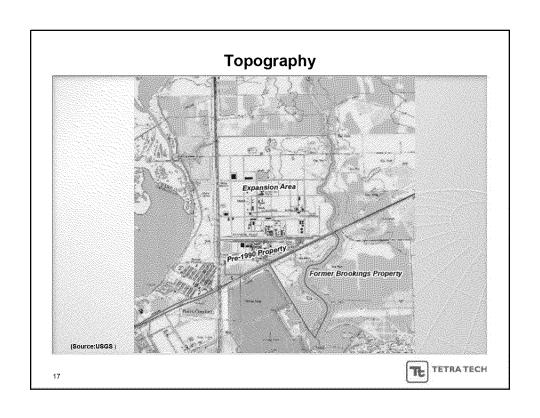
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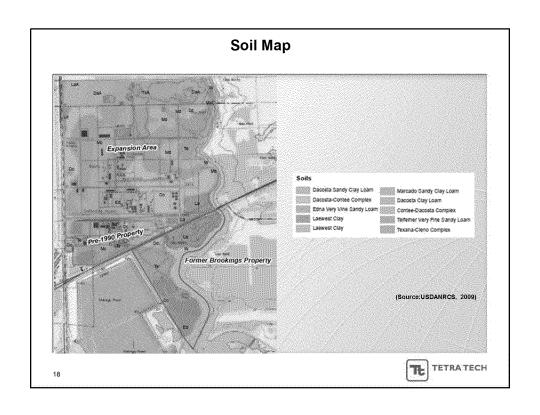


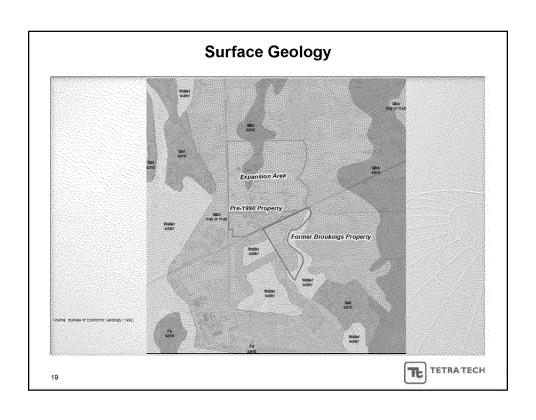
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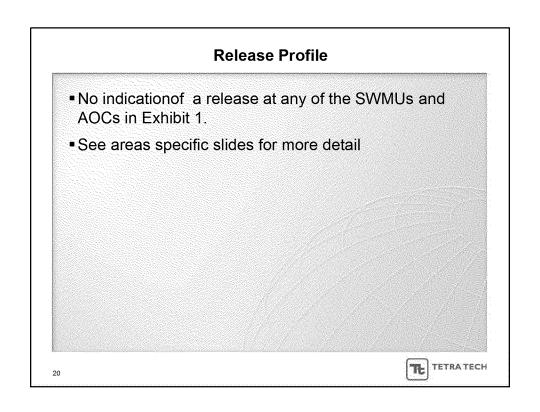
- Topography
- Surface water drainage
 - ISBL to CWTPwith discharge to Lavaca Bay
 - · OSBL to Outfallsat Cox Creek
- Surface soil
- Subsurface Geology
 - Expect to be similar to pre-1990 area
 - Review of Olefins report indicates possible GWBU shallower than Zone A
- Groundwater
 - Expect to be similar to pre-1990 area











Risk Management Profile

No basis to complete this profile unless it is determined that media associated with Exhibit 1 SWMUs/AOCsis affected.

21



Exhibit 1 List

SolidWaste Management Units

- Hazardous WasteStorageTank DT405:TCEQ NOR Unit 023
- Hazardous WasteStorageTank DT407A: TCEQ NOR Unit 024 Hazardous WasteStorageTank DT407B TCEQ NOR Unit 025
- Brine Filter PressRoll-off BoxContainer StorageArea: TCEQ NOR Unit 026
- StoragePad by EDC Unit: TCEQ NOR Unit 031
- EDC ProcessUnit within ISBL SystemContainerStorageArea: TCEQ NOR Unit 035
- HDPE II ProcessAreawithin the ISBL SystemContainer StorageArea, also known asHDPE Sump: TCEQ NOR Unit 039 7.
- ExpansionTechnical, Lessthan90-dayDrum StorageArea: TCEQ NOR Unit 042
- RawWaterPondReceivingBlow-down fromDemineralization Unit, Surface Impoundment: TCEQ NOR Unit 043 9.
- Chlor-Alkali--IEM Unit within the ISBL SystemContainer StorageArea: TCEQ NOR Unit 045 inactives ince August 24, 2009 10.
- SPVC Technical, Lessthan 90-dayDrum StorageArea: TCEQ NOR Unit 050
- Olefins Plant Area: Zimpro OL-1 and OL-2 WetAir Oxidation Units (wastewatertreatmentunder the TPDES permit) 12.
- SatelliteAccumulation StorageAreas.
 - a) LaboratoryWastes-Satellite Accumulation Areas b) Spray PaintingWastes- SatelliteAccumulation Areas
 - Sand BlastWastes-Satellite Accumulation Areas

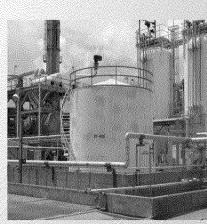
Areas of Concern

- StormWaterOutfalls 6, 7, 8, and 9
- SoilDebris Piles Northeast of New SPVC Facility
- LLDPEPlant: Tank DO 615- WaterSeparationUnit 3. fromDie Cut Process
- LLDPEPlant: Heavy Ends Tank ReceivingWastefrom the Solvent RecoveryUnit
- 5. HDPE Plant I: WasteHexane Drum and WasteHexane Stripper HDPE Plant II: Tank T801 - Centrifugal Dryer Filtrate Unit
- Central MaintenanceShop and MaintenanceWaste:
 WashDown Pad, Oil WaterSeparator, andUsed Oil
 StorageVessel
 - WasteManagement Units listedon TCEQ NOR and locatedin the Combined WastewaterTreatment Plant: TCEQ NOR Units 27,36,37, 40 and 49

TE TETRATECH

SWMU-1 (NOR # 23) Hazardous Waste Storage Tank DT-405

- Tank is empty
- Historicallymanaged distillationends and sold as product
- On fileintegritycertificationreports indicatetank properly maintained
- TCEQ letter dated December 23, 2003 states, "....therehas been no release from the abovementioned unit (DT-405) and no response actions are required."
- Tank was closed on NOR as of April 15, 2004





23

SWMU-2,3 (NOR #s 24, 25) Hazardous Waste Storage Tanks DT-407A/B

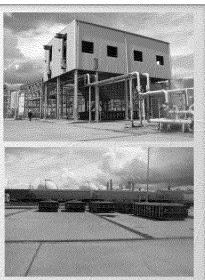
- Storedistillationends that is shipped toanother companyas a product
- Previouslymanagedas "hazardous waste" storagetanks, untilthe TCEQ, EPA, and LDEQ agreed that thereuse of the materialas a feedstock allowed thesitemanagethe materialas a productand change thestatus -April1, 2001
- Tanks are inspected weekly
- No record of any spills



TETRATECH

SWMU-4 (NOR #26) Brine Filter Press Roll-off Box Container Storage Area

- Brine mud from the Brine FilterPress stored for offsite disposal as a Class 2 nonhazardous waste
- The unit began operations in the early 1990's
- 1 or 2 roll-offsper month
- Materials are stored in rolloffs on concrete with containment in a designated area





25

SWMU-5 (NOR #31) Storage Pad near EDC Unit

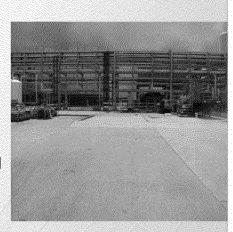
- This is the site of a former< 90day concrete storage pad
- Pad used for thermal desorption of EDC impactedsoils
- The area now contains operations not associated with the initialunit
- Inactivestorage area is adjacent to the unit (DT-402B) and within where EDC impacted groundwater is being remediated under the TCEQ program
- Inactive on NOR since August 24, 2009



TE TETRATECH

SWMU-6 (NOR #35) EDC Process Unit withinISBL System ContainerStorageArea

- Less than 90-day storage area
- Active since the early 1990's
- Wastematerials from maintenance temporally stored in roll-offboxes
- Container area is on curbed concrete and is inspected weekly
- No record of any spills

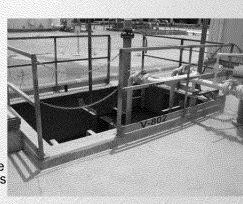




27

SWMU-7(NOR # 39) HDPE II ProcessArea withintheISBL System ContainerStorageArea

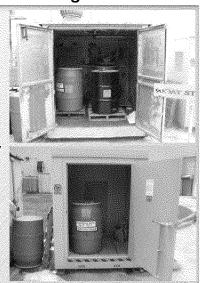
- Receivesstorm and wash water from contained area where chromeis used
- Installed in the early 2000's
- Initiallylisted as a hazardous waste unit
- Meets Class 2 nonhazardous wastewater standards
- Tested for total chromiumprior to sending to CWTP(< 0.2 mg/L)
- Analyticalrecords demonstrate sump never held RCRA wastes
- Inspected and certifiedby a Professional Engineer as a "tank" ~ 2010
- No record of any spills



TETRATECH

SWMU-8 (NOR #42) Less than 90-day Drum Storage Area

- Temporary accumulationof laboratory wastes (solids and liquid)
 Technical Area
- The Unit began operations in early 2000's
- No evidenceof surface staining within or around the unit's secondary containment
- Inspected weekly per TCEQ's temporary accumulationrules
- No record of any spills





29

SWMU-9 (NOR #43) Raw Water Pond Receiving Blow-Down from Demineralization Unit, Surface Impoundment

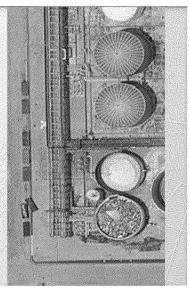
- Raw water from Lake Texanain southern part and blow-down water (clarifiersludge) in northern part of pond
- DemineralizationUnit uses clarifierto removesolids
- Solids meet Class 2 nonhazardous waste requirements
- Deed Recorded (TAC Per 335.9)
- There are no known contaminantsin the raw water supply



TETRATECH

SWMU-10(NOR #45) Chlor-Alkali– IEM Unit Withinthe ISBL System ContainerStorageArea

- Waste materials stored (< 90-days) in this area as part of a one-time removal offspec acid with elevated levels of mercury - 2007
- Material was placed in polytanks within contained concrete area and properly disposed of as a hazardous waste
- Poly tanks inspected daily by contractor during project
- No record of any spills





31

SWMU-11 (NOR #50) SPVC Technical,Less than 90-Day Drum Storage Area

- Temporary accumulation of laboratory wastes
- The SPVC Unit and Secondary containmentwas constructed and began operations in early 2011
- No evidenceof surface staining within or around the unit's concrete secondary containment
- Inspected weekly per TCEQ's temporary accumulationrules
- No record of any spills





SWMU-12 OlefinsPlant Area: ZimproOL-1and OL-2Wet Air OxidationUnits

- Wastewatertreatment units under TPDES Permit
- The wet air oxidation unit (Zimpro) reduces the concentration of sulfides and organic compounds in the caustic solution
- Remaining sulfides in effluent from stripperis treated biologically in the CWTP
- Organic compounds sent to flare and additional VOCs removed from liquid via a steam stripper
- No record of any spills







33

SWMU-13a Satellite Accumulation Area – Laboratory Wastes

- 3-Day SatelliteStorage Areas for storage of laboratory wastes
- Typical wastes stored are used rags and glovesand spent lab solvents
- Wastesare transferreddaily to the 90-day storage
- These accumulationareas are operated in accordance with TCEQ rules and are inspected daily
- There are no recorded spills from these areas





TETRATECH

SWMU-13b Satellite Accumulation Area – Spray Painting Wastes

- There is no waste spray paint waste satellitearea
- Painting is conducted using individualspray cans which are used until depleted
- Empties punctured and disposed of as scrap metal

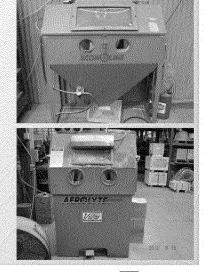
35



SWMU-13c Satellite Accumulation Area- Sand Blast Wastes

- Valves and small parts
- Baking soda or ceramic bead based media used
- Self-containedunits inside maintenancebuilding
- Class 2 nonhazardouswaste

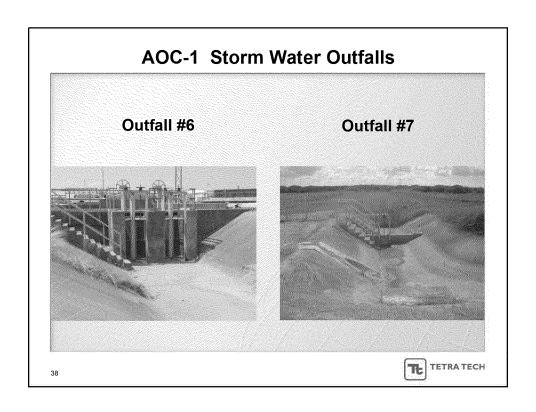


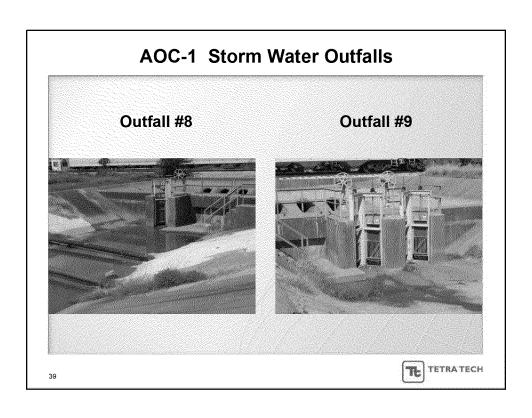


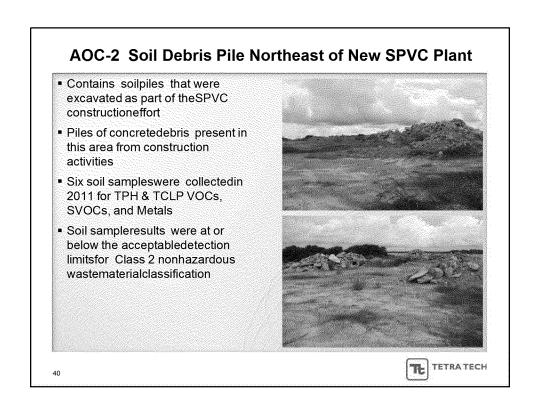
AOC-1 Storm Water Outfalls #'s 6, 7, 8, and 9

- Waterfrom OSBL
- Managed under Site TPDES Permit
- Permit updated in 2005 Currently being renewed
- Outfall areas are maintained and cleaned on a regular basis
- •Watertested prior to release for TOC, pH, Oil & Grease



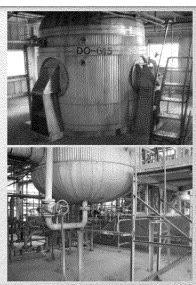






AOC-3 LLDPE Plant: Tank DO 615 – Water SeparationUnit fromDie Cut Process

- Tank DO 615 utilizedas a water separation unit as part of the die cut process
- Recovered Hexane sent to FO-530 (AOC-4)
- Above ground & concrete containment
- Liquids tested prior to release to the CWTP
- No record of any spills

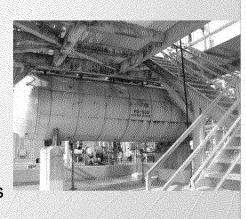




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AOC-4 LLDPE Plant: Heavy Ends ReceivingWaste from the SolventRecovery Unit

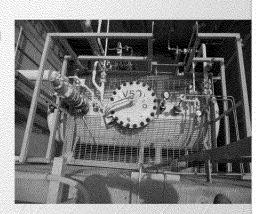
- Receives and stores cutter stock from DO-615 (AOC-3)
- Cutter stock sold as product
- This tank is periodically inspected and sits within a concrete secondary containment
- ■No record of any spills





AOC-5 HDPE Plant I: Waste Hexane Drum

- This is a manufacturingprocess unit (MPU) thathas been in process since1995
- No waste is stored or generated in thisunit
- The name "wastehexane drum" is used by operations toidentify hexane materialthat requires reprocessing before reuse and is not intended to confer any regulatory classification under the RCRA program
- Material inthis unit is piped to thehexane stripper
- No record of any spills





43

AOC-5 HDPE Plant I: Waste Hexane Stripper

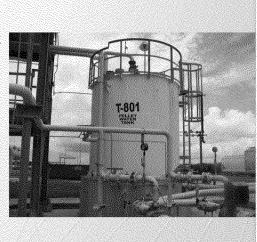
- This is a MPU that has been in process since early 1990's
- The term "waste hexane stripper" are used by operations to identifywaste materialthat requires reprocessing beforereuse and is not intended to confer any regulatory classificationsunder the RCRA program
- Unit fedHexane by the Hexane Drum (AOC-5) and water from dehydration – Watersent to CTWP
- No record of any spills



TE TETRATECH

AOC-5 HDPE II: CentrifugalDryer Filtrate- Pellet Water Tank- T-801Tank

- This MPU pellet water tank, is used to cool water filtratebeforeit is sent back to the cutter box to be reused
- A small amount of water is sent to the CWTP
- Unit is contained within secondary containment
- No record of any spills

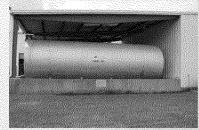




45

AOC-6 Central MaintenanceShop Used OilStorage Vessel

- Used OilStorageVessel holds 15,000gallonsoperated since 1994
- FPC Texas is registered with the TCEQ as a Used OilCollection Center
- Inspected weekly Secondary containmentdikesize is 31,626 gallons
- No record of any spillsfrom this area
- There is no evidence of cracks or spillswithinthetank's secondary containment
- No evidence of surfacestainingor stressed vegetationoutsideof the secondary containment

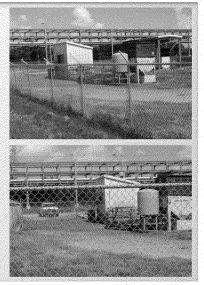




TETRATECH

AOC-6 Central Maintenance Shop and Maintenance Waste Wash Down Pad and Oil-Water Separator

- Washdown pad and oil-water separator (OWS)areconsidered one unit
- Oilbrought tounit by tanker and drums
- Oilcollected is soldas used oil
- Wastewateris treated by theCWTP
- OWSis listedin theTPDES applicationandis authorizedby the TPDES permit
- There are areas of residualsurface staininginthe wash down padarea
- No stainingor stressed vegetation outsideof thewash down pad

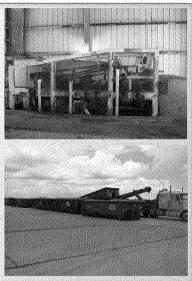




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AOC-7 (NOR #'s 27, 36, 37, 40, and 49) Combined Wastewater Treatment Plant (CWTP)

- CWTPUnit (NOR40)began operationsin September 1993
- Treats inorganicand organic wastewater priorto discharge
- Bio FilterPress (NOR27 & 36) and theRoll-offContainer StorageArea (NOR37 & 49) – bio-solids
- Sludgefrompress is handled as a Class 2 nonhazardous waste
- Stored inroll-offsinthe container storagearea priorto off-sitedisposal
- EffluentdischargedintoLavacaBay as a permitted(TPDES) point source
- The CWTPunit is withinconcrete containment
- No record of any spills



TETRATECH

Corrective Action Objectives

- EPA developed four CAOs for the pre-1990 area.
- In general, these CAOs appear to be appropriate in the event that impacted soil and/or groundwater is identified in the expansion areas identified in Exhibit 1.

49



CAO 1 - Contain GW

The groundwater cleanup objective is to contain the plume, rather than return the groundwater to its maximum beneficial use throughout the plume. The groundwater point of compliance (POC) for FPC will be at the Facility boundary (includingthe former Brookings property), where concentrations of chemicals of concern must be less than or equal to the maximum contaminant limits (MCLs) for drinkingwater. (In the event an MCL is not establishedfor a chemical of concern, a risk-based action level will be developed.)



CAO 2 – Source Removal/Treatment

To support the final groundwater cleanup objective, FPC-TX must remove or treat source material in soils and/or groundwater to the extent practicable. Using the TRRP, soils with concentrationsof COCs in excess of the soil saturation limit (C_{sat}) must be addressed, and groundwater with concentrationsof COCs in excess of 1% solubilitymust be addressed through removal or treatment.

51



CAO 3 – Worker Protection

For the protection of on-site workers dermal contact or ingestion of COCs in soils, FPC-TX will control or mitigate risks to appropriateTRRP industrial screening levels for surface and subsurface soils. Using TRRP guidance, risk associated with soil concentrations excess of the appropriateTRRP PCL will be mitigated.



CAO 4 - Cox Creek

 The corrective action objective for surface water and sediment is to assure protection of human and ecological receptors by monitoring contaminant levels in surface water features associated with Areas of Concern (AOCs)

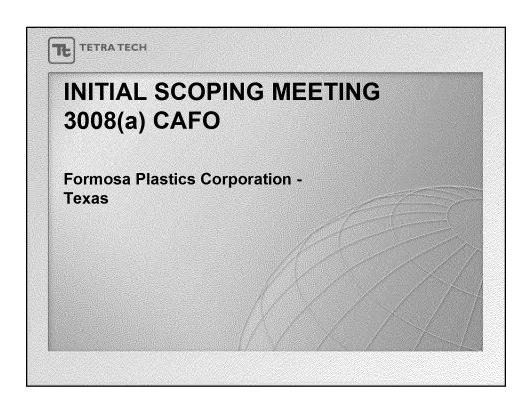
53



Closing

- Schedule
 - Due date forInitial Scoping Meeting Summary
- Coordinationwith TCEQ for post-closureapplication
- Communications
- Additional action items





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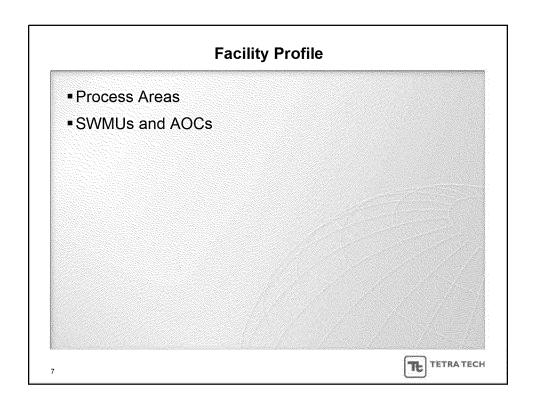
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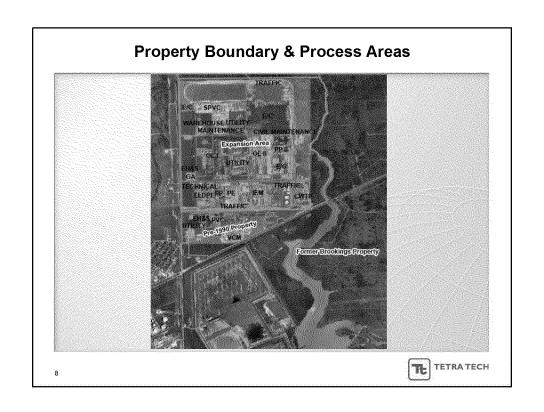


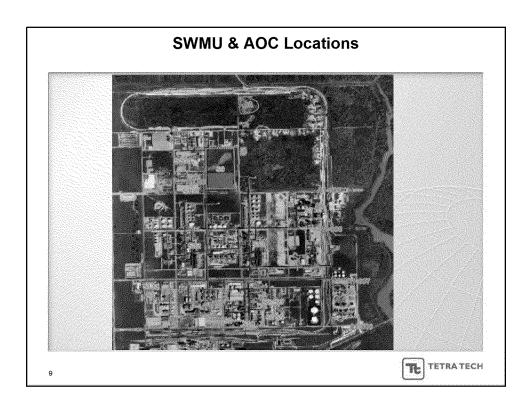
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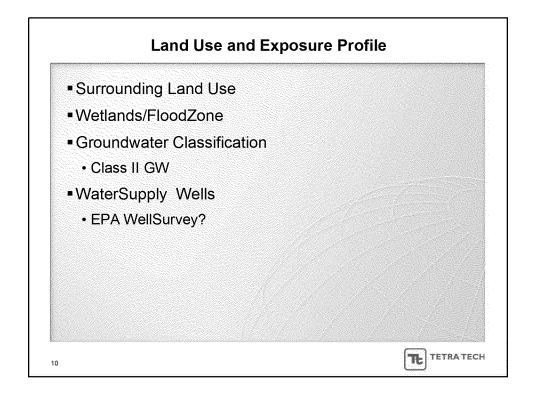
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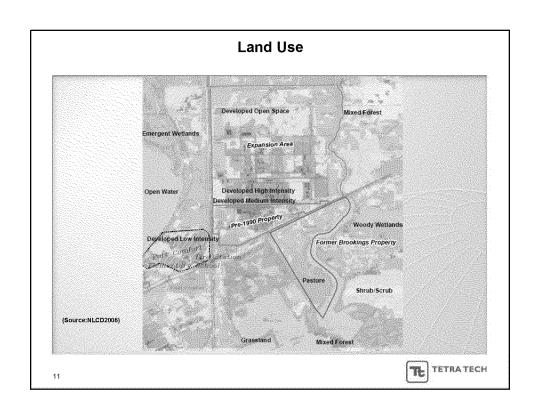


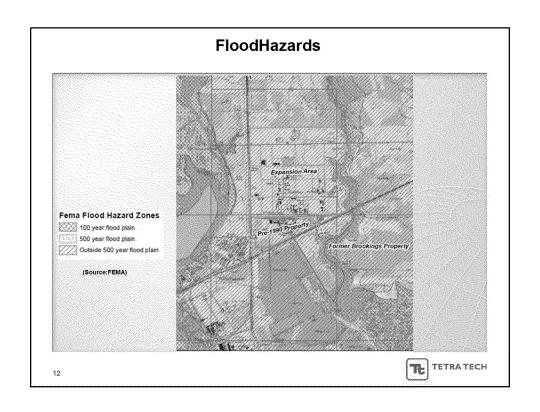




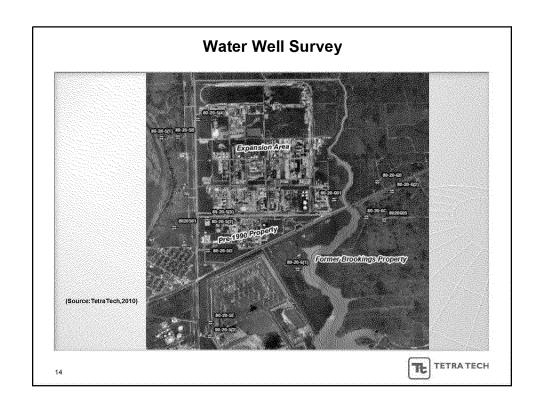








Well Survey Distance from FPC-TXFacility Water Level (feet below State Well Well Depth Owner Well Use Aquifer Number (feet) (feet)* Industrial NA Formosa Plastics Corp OnSite 1230 OnSite eaumo NA Formosa Plastics Corp Industria 210 400 Richards Drilling Oil Field/Supply 3569 20 20 Formosa Plastics Corp Domestic/Industri Onsite 4364 NA 470 80-20-5(3) Richards Drilling Company NA NA 20.0 105.0 Other - S4 F.W.A. Drilling Co. Supply 160 272 438 80-20-6(2) Mobile Production Industrial 3535 40.0 Bay City Drilling Company Bay City Drilling Company 3100 1960 NA NA 0.0 Industrial Industrial Maude B. Traylor Stock 117 3eaumon 0.0 D.L. Taylor Formosa Plastics Corp Public Supply Onsite 160 Carl Snyder NA Domestic Elevation was estimated from contours on USGS topographic map. NA - Not Available TETRA TECH Tt 13



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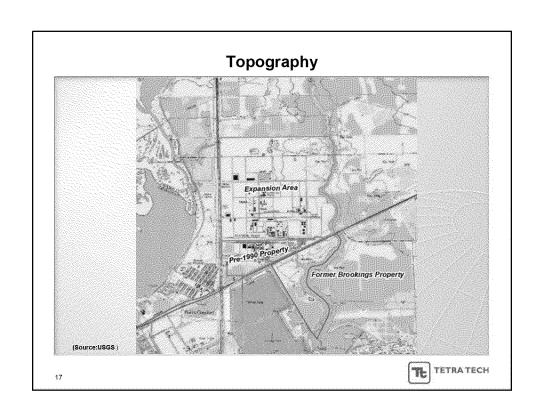
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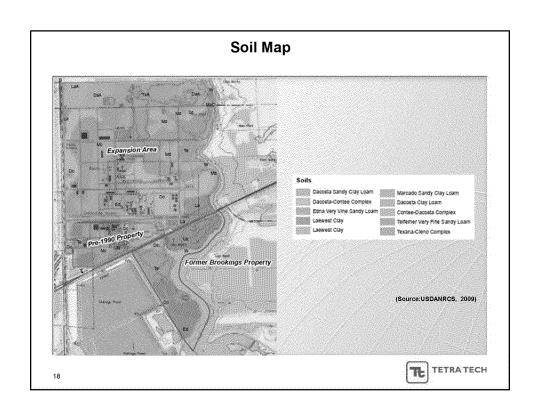


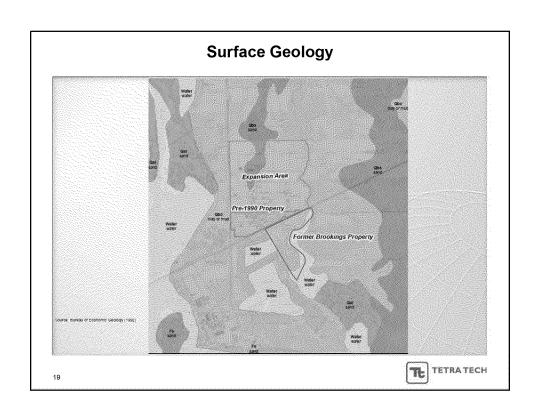
Physical Profile

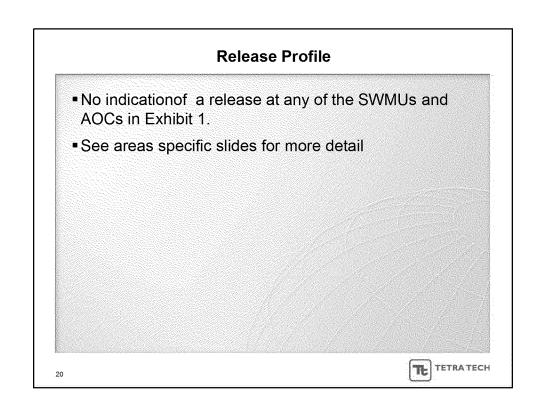
- Topography
- Surface water drainage
 - ISBL to CWTPwith discharge to Lavaca Bay
 - · OSBL to Outfallsat Cox Creek
- Surface soil
- Subsurface Geology
 - Expect to be similar to pre-1990 area
 - Review of Olefins report indicates possible GWBU shallower than Zone A
- Groundwater
 - Expect to be similar to pre-1990 area











Risk Management Profile

No basis to complete this profile unless it is determined that media associated with Exhibit 1 SWMUs/AOCsis affected.

21



Exhibit 1 List

SolidWaste Management Units

- Hazardous WasteStorageTank DT405:TCEQ NOR Unit 023
- Hazardous WasteStorageTank DT407A: TCEQ NOR Unit 024 Hazardous WasteStorageTank DT407B TCEQ NOR Unit 025
- Brine Filter PressRoll-off BoxContainer StorageArea: TCEQ NOR Unit 026
- StoragePad by EDC Unit: TCEQ NOR Unit 031
- EDC ProcessUnit within ISBL SystemContainerStorageArea: TCEQ NOR Unit 035 7.
- HDPE II ProcessAreawithin the ISBL SystemContainer StorageArea, also known asHDPE Sump: TCEQ NOR Unit 039
- ExpansionTechnical, Lessthan90-dayDrum StorageArea: TCEQ NOR Unit 042
- RawWaterPondReceivingBlow-down fromDemineralization Unit, Surface Impoundment: TCEQ NOR Unit 043 9.
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- SPVC Technical, Lessthan 90-dayDrum StorageArea: TCEQ NOR Unit 050
- Olefins Plant Area: Zimpro OL-1 and OL-2 WetAir Oxidation Units (wastewatertreatmentunder the TPDES permit) 12.
- SatelliteAccumulation StorageAreas.
 - a) LaboratoryWastes-Satellite Accumulation Areas b) Spray PaintingWastes- SatelliteAccumulation Areas

 - Sand BlastWastes-Satellite Accumulation Areas

Areas of Concern

- StormWaterOutfalls 6, 7, 8, and 9
- SoilDebris Piles Northeast of New SPVC Facility
- LLDPEPlant: Tank DO 615- WaterSeparationUnit 3. fromDie Cut Process
- LLDPEPlant: Heavy Ends Tank ReceivingWastefrom the Solvent RecoveryUnit
- 5. HDPE Plant I: WasteHexane Drum and WasteHexane Stripper HDPE Plant II: Tank T801 - Centrifugal Dryer Filtrate Unit
- Central MaintenanceShop and MaintenanceWaste:
 WashDown Pad, Oil WaterSeparator, andUsed Oil
 StorageVessel
 - WasteManagement Units listedon TCEQ NOR and locatedin the Combined WastewaterTreatment Plant: TCEQ NOR Units 27,36,37, 40 and 49

TE TETRATECH

SWMU-1 (NOR # 23) Hazardous Waste Storage Tank DT-405

- Tank is empty
- Historicallymanaged distillationends and sold as product
- On fileintegritycertificationreports indicatetank properly maintained
- TCEQ letter dated December 23, 2003 states, "....therehas been no release from the abovementioned unit (DT-405) and no response actions are required."
- Tank was closed on NOR as of April 15, 2004

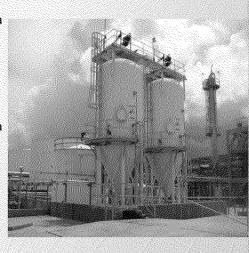




23

SWMU-2,3 (NOR #s 24, 25) Hazardous Waste Storage Tanks DT-407A/B

- Storedistillationends that is shipped toanother companyas a product
- Previouslymanagedas "hazardous waste" storagetanks, untilthe TCEQ, EPA, and LDEQ agreed that thereuse of the materialas a feedstock allowed thesitemanagethe materialas a productand change thestatus -April1, 2001
- Tanks are inspected weekly
- No record of any spills



2

TETRATECH

SWMU-4 (NOR #26) Brine Filter Press Roll-off Box Container Storage Area

- Brine mud from the Brine FilterPress stored for offsite disposal as a Class 2 nonhazardous waste
- The unit began operations in the early 1990's
- 1 or 2 roll-offsper month
- Materials are stored in rolloffs on concrete with containment in a designated area





25

SWMU-5 (NOR #31) Storage Pad near EDC Unit

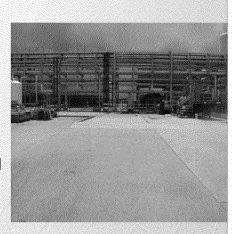
- This is the site of a former< 90day concrete storage pad
- Pad used for thermal desorption of EDC impactedsoils
- The area now contains operations not associated with the initialunit
- Inactivestorage area is adjacent to the unit (DT-402B) and within where EDC impacted groundwater is being remediated under the TCEQ program
- Inactiveon NOR since August 24, 2009



TETRATECH

SWMU-6 (NOR #35) EDC Process Unit withinISBL System ContainerStorageArea

- Less than 90-day storage area
- Active since the early 1990's
- Wastematerials from maintenance temporally stored in roll-offboxes
- Container area is on curbed concrete and is inspected weekly
- No record of any spills

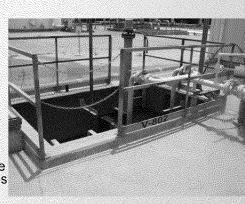




27

SWMU-7(NOR # 39) HDPE II ProcessArea withintheISBL System ContainerStorageArea

- Receivesstorm and wash water from contained area where chromeis used
- Installed in the early 2000's
- Initiallylisted as a hazardous waste unit
- Meets Class 2 nonhazardous wastewater standards
- Tested for total chromiumprior to sending to CWTP(< 0.2 mg/L)
- Analyticalrecords demonstrate sump never held RCRA wastes
- Inspected and certifiedby a Professional Engineer as a "tank" ~ 2010
- No record of any spills



TE TETRATECH

SWMU-8 (NOR #42) Less than 90-day Drum Storage Area

- Temporary accumulationof laboratory wastes (solids and liquid)
 Technical Area
- The Unit began operations in early 2000's
- No evidenceof surface staining within or around the unit's secondary containment
- Inspected weekly per TCEQ's temporary accumulationrules
- No record of any spills

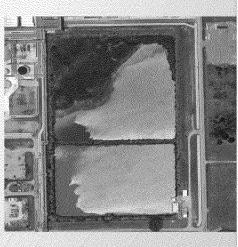




29

SWMU-9 (NOR #43) Raw Water Pond Receiving Blow-Down from Demineralization Unit, Surface Impoundment

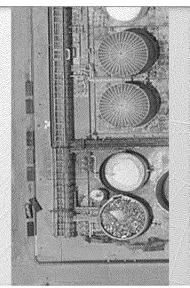
- Raw water from Lake Texanain southern part and blow-down water (clarifiersludge) in northern part of pond
- DemineralizationUnit uses clarifierto removesolids
- Solids meet Class 2 nonhazardous waste requirements
- Deed Recorded (TAC Per 335.9)
- There are no known contaminantsin the raw water supply



TETRATECH

SWMU-10(NOR #45) Chlor-Alkali– IEM Unit Withinthe ISBL System ContainerStorageArea

- Waste materials stored (< 90-days) in this area as part of a one-time removal offspec acid with elevated levels of mercury - 2007
- Material was placed in polytanks within contained concrete area and properly disposed of as a hazardous waste
- Poly tanks inspected daily by contractor during project
- No record of any spills





31

SWMU-11 (NOR #50) SPVC Technical,Less than 90-Day Drum Storage Area

- Temporary accumulation of laboratory wastes
- The SPVC Unit and Secondary containmentwas constructed and began operations in early 2011
- No evidenceof surface staining within or around the unit's concrete secondary containment
- Inspected weekly per TCEQ's temporary accumulationrules
- No record of any spills



TE TETRATECH

SWMU-12 OlefinsPlant Area: ZimproOL-1and OL-2Wet Air OxidationUnits

- Wastewatertreatment units under TPDES Permit
- The wet air oxidation unit (Zimpro) reduces the concentration of sulfides and organic compounds in the caustic solution
- Remaining sulfides in effluent from stripperis treated biologically in the CWTP
- Organic compounds sent to flare and additional VOCs removed from liquid via a steam stripper
- No record of any spills







33

SWMU-13a Satellite Accumulation Area – Laboratory Wastes

- 3-Day SatelliteStorage Areas for storage of laboratory wastes
- Typical wastes stored are used rags and glovesand spent lab solvents
- Wastesare transferreddaily to the 90-day storage
- These accumulationareas are operated in accordance with TCEQ rules and are inspected daily
- There are no recorded spills from these areas





TETRATECH

SWMU-13b Satellite Accumulation Area – Spray Painting Wastes

- There is no waste spray paint waste satellitearea
- Painting is conducted using individualspray cans which are used until depleted
- Empties punctured and disposed of as scrap metal

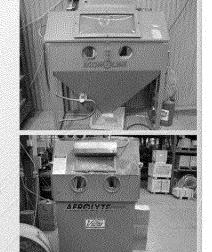
35



SWMU-13c Satellite Accumulation Area- Sand Blast Wastes

- Valves and small parts
- Baking soda or ceramic bead based media used
- Self-containedunits inside maintenancebuilding
- Class 2 nonhazardouswaste



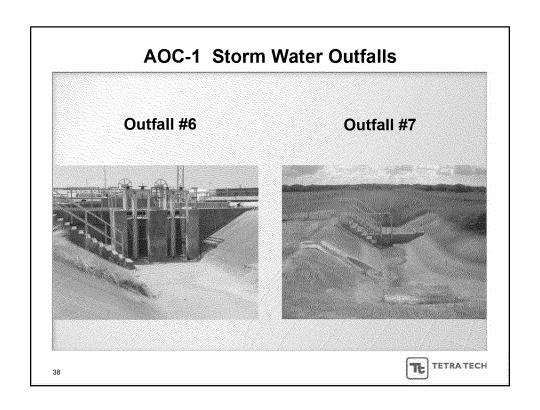


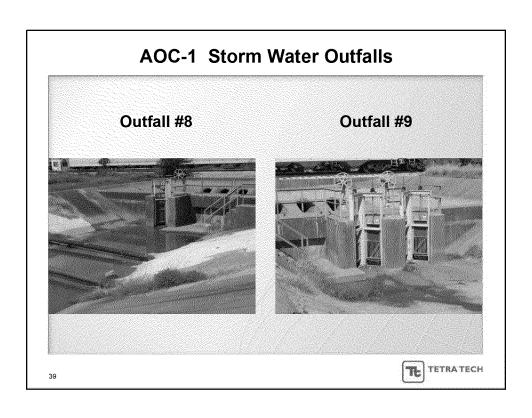
TETRATECH

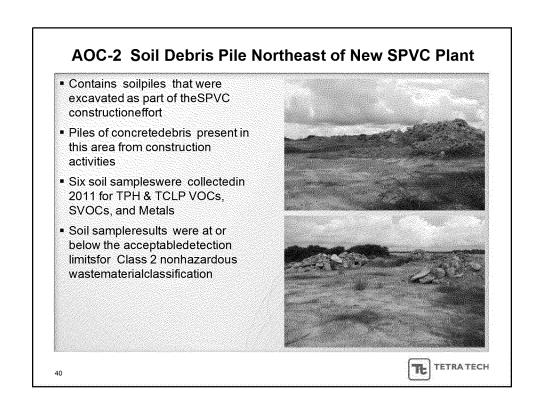
AOC-1 Storm Water Outfalls #'s 6, 7, 8, and 9

- Waterfrom OSBL
- Managed under Site TPDES Permit
- Permit updated in 2005 Currently being renewed
- Outfall areas are maintained and cleaned on a regular basis
- •Watertested prior to release for TOC, pH, Oil & Grease



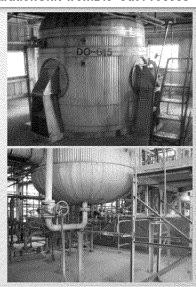






AOC-3 LLDPE Plant: Tank DO 615 – Water SeparationUnit fromDie Cut Process

- Tank DO 615 utilizedas a water separation unit as part of the die cut process
- Recovered Hexane sent to FO-530 (AOC-4)
- Above ground & concrete containment
- Liquids tested prior to release to the CWTP
- No record of any spills





41

AOC-4 LLDPE Plant: Heavy Ends ReceivingWaste from the SolventRecovery Unit

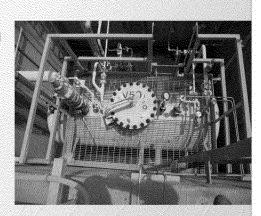
- Receives and stores cutter stock from DO-615 (AOC-3)
- Cutter stock sold as product
- This tank is periodically inspected and sits within a concrete secondary containment
- ■No record of any spills





AOC-5 HDPE Plant I: Waste Hexane Drum

- This is a manufacturingprocess unit (MPU) thathas been in process since 1995
- No waste is stored or generated in thisunit
- The name "wastehexane drum" is used by operations toidentify hexane materialthat requires reprocessing before reuse and is not intended to confer any regulatory classification under the RCRA program
- Material inthis unit is piped to thehexane stripper
- No record of any spills





43

AOC-5 HDPE Plant I: Waste Hexane Stripper

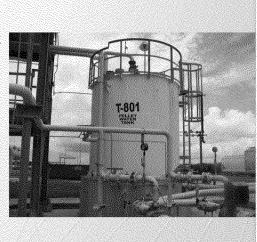
- This is a MPU that has been in process since early 1990's
- The term "waste hexane stripper" are used by operations to identifywaste materialthat requires reprocessing beforereuse and is not intended to confer any regulatory classificationsunder the RCRA program
- Unit fedHexane by the Hexane Drum (AOC-5) and water from dehydration – Watersent to CTWP
- No record of any spills



TE TETRATECH

AOC-5 HDPE II: CentrifugalDryer Filtrate- Pellet Water Tank- T-801Tank

- This MPU pellet water tank, is used to cool water filtratebeforeit is sent back to the cutter box to be reused
- A small amount of water is sent to the CWTP
- Unit is contained within secondary containment
- No record of any spills

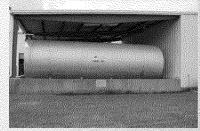




45

AOC-6 Central MaintenanceShop Used OilStorage Vessel

- Used OilStorageVessel holds 15,000gallonsoperated since 1994
- FPC Texas is registered with the TCEQ as a Used OilCollection Center
- Inspected weekly Secondary containmentdikesize is 31,626 gallons
- No record of any spillsfrom this area
- There is no evidence of cracks or spillswithinthetank's secondary containment
- No evidence of surfacestainingor stressed vegetationoutsideof the secondary containment

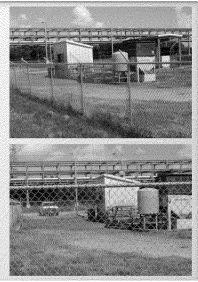






AOC-6 Central Maintenance Shop and Maintenance Waste Wash Down Pad and Oil-Water Separator

- Washdown pad and oil-water separator (OWS)areconsidered one unit
- Oilbrought tounit by tanker and drums
- Oilcollected is soldas used oil
- Wastewateris treated by theCWTP
- OWSis listedin theTPDES applicationandis authorizedby the TPDES permit
- There are areas of residualsurface staininginthe wash down padarea
- No stainingor stressed vegetation outsideof thewash down pad

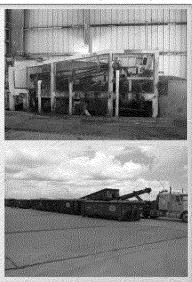




47

AOC-7 (NOR #'s 27, 36, 37, 40, and 49) Combined Wastewater Treatment Plant (CWTP)

- CWTPUnit (NOR40)began operationsin September 1993
- Treats inorganicand organic wastewater priorto discharge
- Bio FilterPress (NOR27 & 36) and theRoll-offContainer StorageArea (NOR37 & 49) – bio-solids
- Sludgefrompress is handled as a Class 2 nonhazardous waste
- Stored inroll-offsinthe container storagearea priorto off-sitedisposal
- EffluentdischargedintoLavacaBay as a permitted(TPDES) point source
- The CWTPunit is withinconcrete containment
- No record of any spills



TETRATECH

Corrective Action Objectives

- EPA developed four CAOs for the pre-1990 area.
- In general, these CAOs appear to be appropriate in the event that impacted soil and/or groundwater is identified in the expansion areas identifiedin Exhibit 1.

49



CAO 1 - Contain GW

The groundwater cleanup objective is to contain the plume, rather than return the groundwater to its maximum beneficial use throughout the plume. The groundwater point of compliance (POC) for FPC will be at the Facility boundary (includingthe former Brookings property), where concentrations of chemicals of concern must be less than or equal to the maximum contaminant limits (MCLs) for drinkingwater. (In the event an MCL is not establishedfor a chemical of concern, a risk-based action level will be developed.)



CAO 2 – Source Removal/Treatment

To support the final groundwater cleanup objective, FPC-TX must remove or treat source material in soils and/or groundwater to the extent practicable. Using the TRRP, soils with concentrationsof COCs in excess of the soil saturation limit (C_{sat}) must be addressed, and groundwater with concentrationsof COCs in excess of 1% solubilitymust be addressed through removal or treatment.

51



CAO 3 – Worker Protection

For the protection of on-site workers dermal contact or ingestion of COCs in soils, FPC-TX will control or mitigate risks to appropriateTRRP industrial screening levels for surface and subsurface soils. Using TRRP guidance, risk associated with soil concentrations excess of the appropriateTRRP PCL will be mitigated.



CAO 4 - Cox Creek

 The corrective action objective for surface water and sediment is to assure protection of human and ecological receptors by monitoring contaminant levels in surface water features associated with Areas of Concern (AOCs)

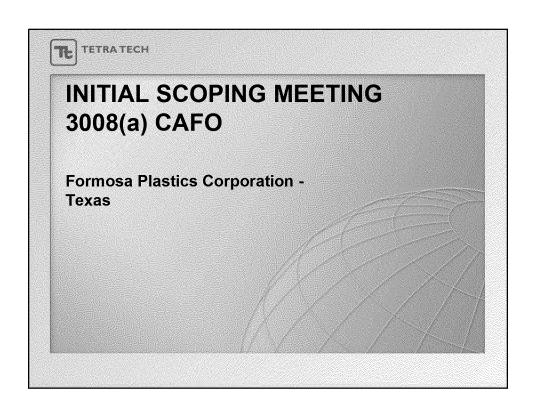
53



Closing

- Schedule
 - Due date forInitial Scoping Meeting Summary
- Coordinationwith TCEQ for post-closureapplication
- Communications
- Additional action items





3008(a)/3008(h) and Post-Closure

- Pre-1990 FacilityArea is covered by existing 3008(h) order; includesthe former Brookings Property
- Expansion facilityareas as defined in Exhibit 1 are covered by the 3008(a) order.
- A post-closure permit/order application is being prepared for submittal to TCEQ covering the entire facility. Upon issuance of the permit, both the (h) and the (a) order will terminate ~ 2 years

TE TETRATECH

3008(a) CAFO

Section VII identifies9 tasks to be completed

- Post Closure application
- Initial ScopingMeeting
- Initial ScopingMeeting Summary
- Draft & Final CAS WorkPlan
- Draft & Final updatedRMP
- Draft & Final updatedCRP and SMP

Tasks are based on approach described in EPA Corrective Action Strategy (CAS)



General Approach to Expansion Area

- Document status and evaluate needto investigateExhibit 1 areas ("Scoping Meeting")
- 2. Prepare a WPto investigatethose Exhibit 1 areas that are not NFA ("CAS WP")
 - First priority will be to determineif impactedmediais actually present
 - Second prioritywill be resolving potential CSM data gaps: if there is no impactedmedia(no release) there is no need for a CSM.
- 3. Results of investigationdocumentedin updatedRMP
 - Updated RMP will include site-wide information
- 4. CRP and SMP will be updatedfollowing approvalof the RMP to incorporate additional information as warranted.

TE TETRATECH

Initial Scoping Meeting

- CAFO, Section VII, Para. 30 directs FPC-TX to participatein an initialscoping meeting with EPA and TCEQ. Specifically,FPC-TX is directed to:
 - Document status of each SWMUand AOC included in Exhibit 1 of the CAFO
 - Evaluateneed to perform corrective action activities at each Exhibit 1 SWMU and AOC

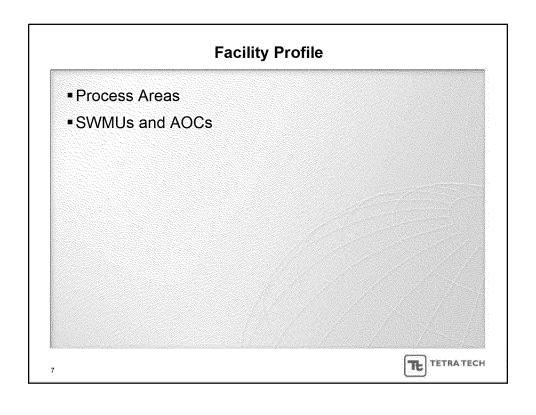
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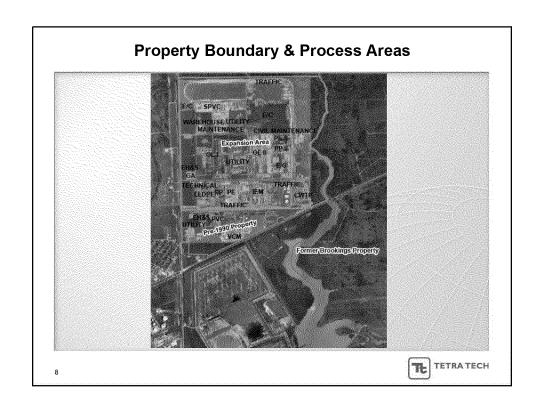


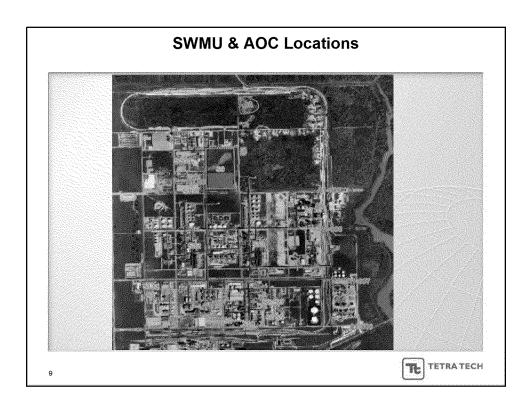
Conceptual Site Model

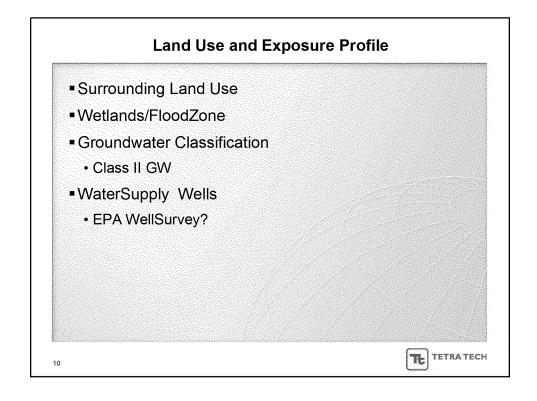
- A CSM as defined by CAS consists of six elements:
 - Facility Profile
 - Land Use and Exposure Profile
 - EcologicalProfile
 - PhysicalProfile
 - · Release Profile
 - · Risk Management Profile

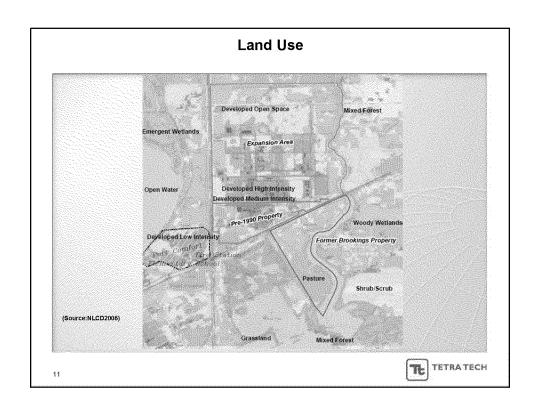


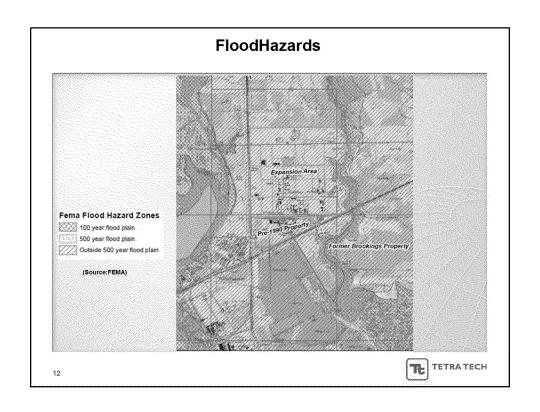




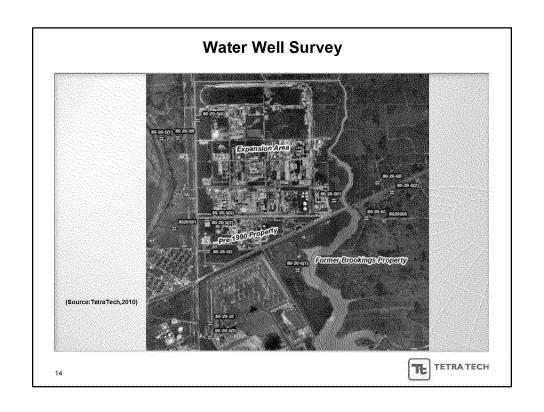








Well Survey Distance from FPC-TXFacility Water Level (feet below State Well Well Depth Owner Well Use Aquifer Number (feet) (feet)* Industrial NA Formosa Plastics Corp OnSite 1230 OnSite eaumo NA Formosa Plastics Corp Industria 210 400 Richards Drilling Oil Field/Supply 3569 20 20 Formosa Plastics Corp Domestic/Industri Onsite 4364 NA 470 80-20-5(3) Richards Drilling Company NA NA 20.0 105.0 Other - S4 F.W.A. Drilling Co. Supply 160 272 438 80-20-6(2) Mobile Production Industrial 3535 40.0 Bay City Drilling Company Bay City Drilling Company 3100 1960 NA NA 0.0 Industrial Industrial Maude B. Traylor Stock 117 3eaumon 0.0 D.L. Taylor Formosa Plastics Corp Public Supply Onsite 160 Carl Snyder NA Domestic Elevation was estimated from contours on USGS topographic map. NA - Not Available TETRA TECH Tt 13



Ecological Profile

- Ecological Exclusion Criteria Worksheet
 - Included as AppendixC of the approvedRMP
 - Facility meets the exclusion criteria, thus investigationin support of potentialecologicalrisks is not warranted
 - No basis to updatethis worksheet/evaluationunless it is determined that media associated with Exhibit 1 SWMUs/AOCsis affected.

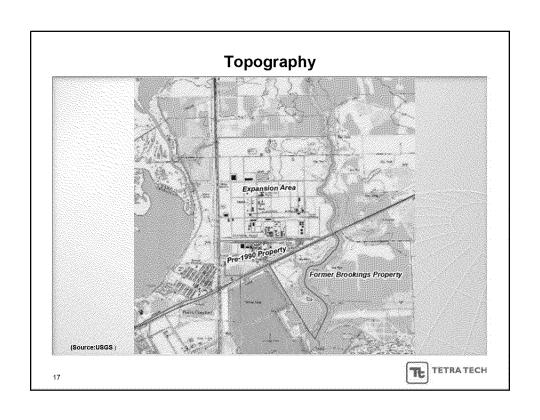
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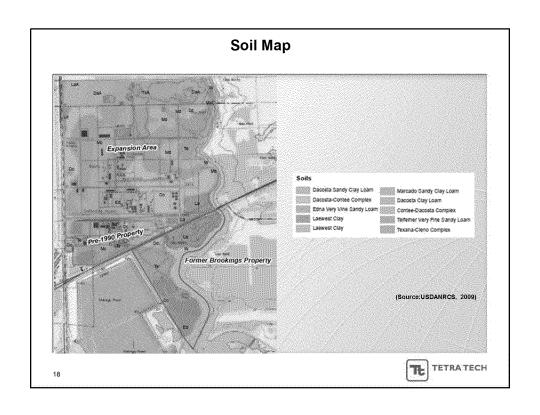


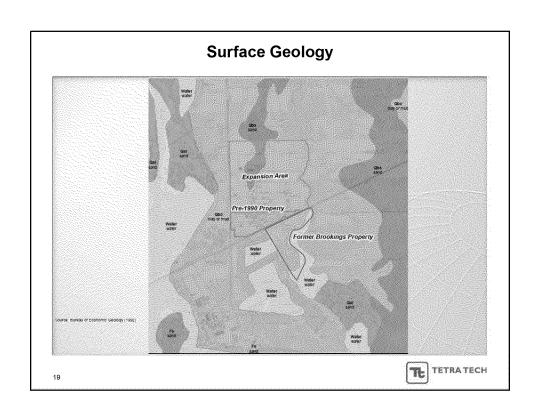
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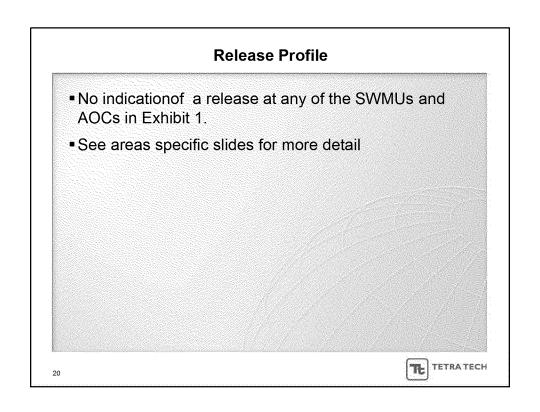
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- Surface soil
- Subsurface Geology
 - Expect to be similar to pre-1990 area
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- Groundwater
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Risk Management Profile

No basis to complete this profile unless it is determined that media associated with Exhibit 1 SWMUs/AOCsis affected.

21



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Areas of Concern

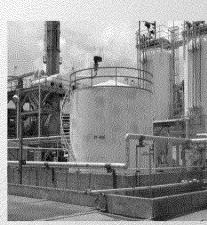
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- SoilDebris Piles Northeast of New SPVC Facility
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- LLDPEPlant: Heavy Ends Tank ReceivingWastefrom the Solvent RecoveryUnit
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- Unit Central MaintenanceShop and MaintenanceWaste:
 WashDown Pad, Oil WaterSeparator, andUsed Oil
 StorageVessel

WasteManagement Units listedon TCEQ NOR and locatedin the Combined WastewaterTreatment Plant: TCEQ NOR Units 27,36,37, 40 and 49

TE TETRATECH

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- On fileintegritycertificationreports indicatetank properly maintained
- TCEQ letter dated December 23, 2003 states, "....therehas been no release from the abovementioned unit (DT-405) and no response actions are required."
- Tank was closed on NOR as of April 15, 2004

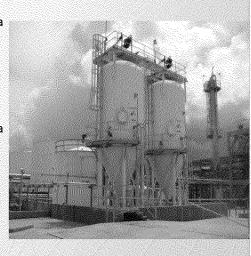




23

SWMU-2,3 (NOR #s 24, 25) Hazardous Waste Storage Tanks DT-407A/B

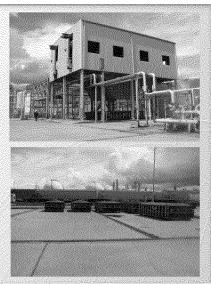
- Storedistillationends that is shipped toanother companyas a product
- Previouslymanagedas "hazardous waste" storagetanks, untilthe TCEQ, EPA, and LDEQ agreed that thereuse of the materialas a feedstock allowed thesitemanagethe materialas a productand change thestatus -April1, 2001
- Tanks are inspected weekly
- No record of any spills



TETRATECH

SWMU-4 (NOR #26) Brine Filter Press Roll-off Box Container Storage Area

- Brine mud from the Brine FilterPress stored for offsite disposal as a Class 2 nonhazardous waste
- The unit began operations in the early 1990's
- 1 or 2 roll-offsper month
- Materials are stored in rolloffs on concrete with containment in a designated area

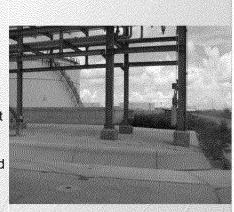




25

SWMU-5 (NOR #31) Storage Pad near EDC Unit

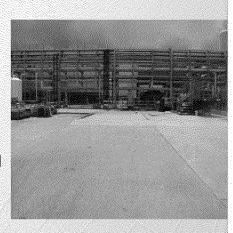
- This is the site of a former< 90day concrete storage pad
- Pad used for thermal desorption of EDC impactedsoils
- The area now contains operations not associated with the initialunit
- Inactivestorage area is adjacent to the unit (DT-402B) and within where EDC impacted groundwater is being remediated under the TCEQ program
- Inactive NOR since August 24, 2009



TE TETRATECH

SWMU-6 (NOR #35) EDC Process Unit withinISBL System ContainerStorageArea

- Less than 90-day storage area
- Active since the early 1990's
- Wastematerials from maintenance temporally stored in roll-offboxes
- Container area is on curbed concrete and is inspected weekly
- No record of any spills

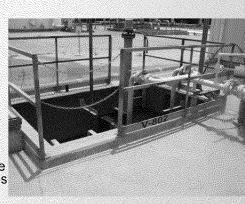




27

SWMU-7(NOR # 39) HDPE II ProcessArea withintheISBL System ContainerStorageArea

- Receivesstorm and wash water from contained area where chromeis used
- Installed in the early 2000's
- Initiallylisted as a hazardous waste unit
- Meets Class 2 nonhazardous wastewater standards
- Tested for total chromiumprior to sending to CWTP(< 0.2 mg/L)
- Analyticalrecords demonstrate sump never held RCRA wastes
- Inspected and certifiedby a Professional Engineer as a "tank" ~ 2010
- No record of any spills



TETRATECH

SWMU-8 (NOR #42) Less than 90-day Drum Storage Area

- Temporary accumulationof laboratory wastes (solids and liquid)Technical Area
- The Unit began operations in early 2000's
- No evidenceof surface staining within or around the unit's secondary containment
- Inspected weekly per TCEQ's temporary accumulationrules
- No record of any spills

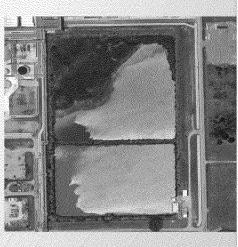




29

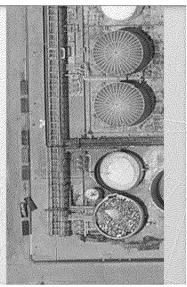
SWMU-9 (NOR #43) Raw Water Pond Receiving Blow-Down from Demineralization Unit, Surface Impoundment

- Raw water from Lake Texanain southern part and blow-down water (clarifiersludge) in northern part of pond
- DemineralizationUnit uses clarifierto removesolids
- Solids meet Class 2 nonhazardous waste requirements
- Deed Recorded (TAC Per 335.9)
- There are no known contaminantsin the raw water supply



SWMU-10(NOR #45) Chlor-Alkali– IEM Unit Withinthe ISBL System ContainerStorageArea

- Waste materials stored (< 90-days) in this area as part of a one-time removal offspec acid with elevated levels of mercury - 2007
- Material was placed in polytanks within contained concrete area and properly disposed of as a hazardous waste
- Poly tanks inspected daily by contractor during project
- No record of any spills





31

SWMU-11 (NOR #50) SPVC Technical,Less than 90-Day Drum Storage Area

- Temporary accumulation of laboratory wastes
- The SPVC Unit and Secondary containmentwas constructed and began operations in early 2011
- No evidenceof surface staining within or around the unit's concrete secondary containment
- Inspected weekly per TCEQ's temporary accumulationrules
- No record of any spills



SWMU-12 OlefinsPlant Area: ZimproOL-1and OL-2Wet Air OxidationUnits

- Wastewatertreatment units under TPDES Permit
- The wet air oxidation unit (Zimpro) reduces the concentration of sulfides and organic compounds in the caustic solution
- Remaining sulfides in effluent from stripperis treated biologically in the CWTP
- Organic compounds sent to flare and additional VOCs removed from liquid via a steam stripper
- No record of any spills







33

SWMU-13a Satellite Accumulation Area – Laboratory Wastes

- 3-Day SatelliteStorage Areas for storage of laboratory wastes
- Typical wastes stored are used rags and glovesand spent lab solvents
- Wastesare transferreddaily to the 90-day storage
- These accumulationareas are operated in accordance with TCEQ rules and are inspected daily
- There are no recorded spills from these areas





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SWMU-13b Satellite Accumulation Area – Spray Painting Wastes

- There is no waste spray paint waste satellitearea
- Painting is conducted using individualspray cans which are used until depleted
- Empties punctured and disposed of as scrap metal

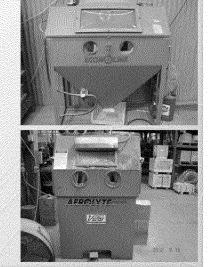
35



SWMU-13c Satellite Accumulation Area- Sand Blast Wastes

- Valves and small parts
- Baking soda or ceramic bead based media used
- Self-containedunits inside maintenancebuilding
- Class 2 nonhazardouswaste

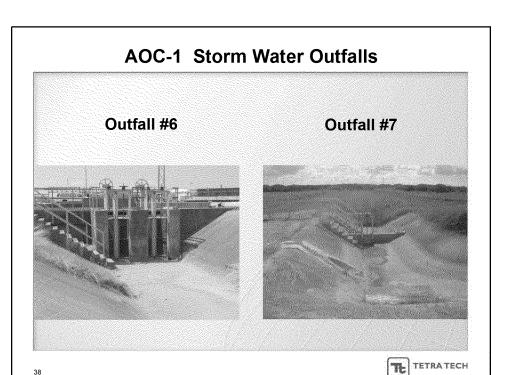




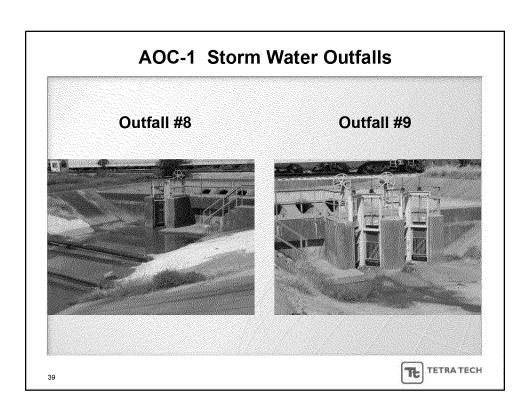
AOC-1 Storm Water Outfalls #'s 6, 7, 8, and 9

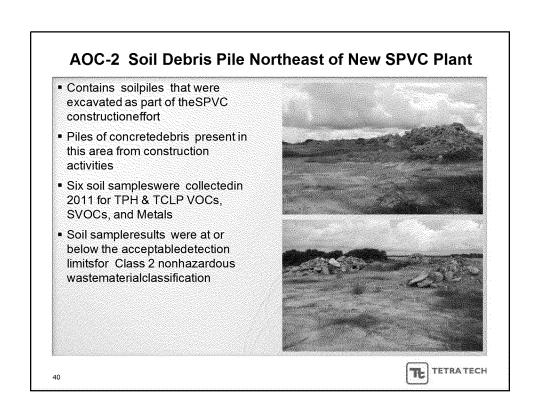
- Waterfrom OSBL
- Managed under Site TPDES Permit
- Permit updated in 2005 Currently being renewed
- Outfall areas are maintained and cleaned on a regular basis
- •Watertested prior to release for TOC, pH, Oil & Grease

37



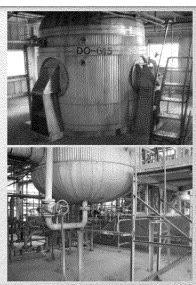
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AOC-3 LLDPE Plant: Tank DO 615 – Water SeparationUnit fromDie Cut Process

- Tank DO 615 utilizedas a water separation unit as part of the die cut process
- Recovered Hexane sent to FO-530 (AOC-4)
- Above ground & concrete containment
- Liquids tested prior to release to the CWTP
- No record of any spills

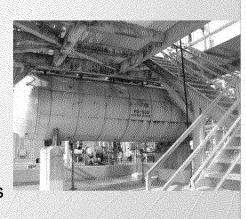




41

AOC-4 LLDPE Plant: Heavy Ends ReceivingWaste from the SolventRecovery Unit

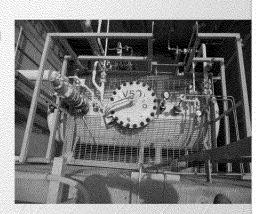
- Receives and stores cutter stock from DO-615 (AOC-3)
- Cutter stock sold as product
- This tank is periodically inspected and sits within a concrete secondary containment
- ■No record of any spills





AOC-5 HDPE Plant I: Waste Hexane Drum

- This is a manufacturingprocess unit (MPU) thathas been in process since 1995
- No waste is stored or generated in thisunit
- The name "wastehexane drum" is used by operations toidentify hexane materialthat requires reprocessing before reuse and is not intended to confer any regulatory classification under the RCRA program
- Material inthis unit is piped to thehexane stripper
- No record of any spills





43

AOC-5 HDPE Plant I: Waste Hexane Stripper

- This is a MPU that has been in process since early 1990's
- The term "waste hexane stripper" are used by operations to identifywaste materialthat requires reprocessing beforereuse and is not intended to confer any regulatory classificationsunder the RCRA program
- Unit fedHexane by the Hexane Drum (AOC-5) and water from dehydration – Watersent to CTWP
- No record of any spills



TETRATECH

AOC-5 HDPE II: CentrifugalDryer Filtrate- Pellet Water Tank- T-801Tank

- This MPU pellet water tank, is used to cool water filtratebeforeit is sent back to the cutter box to be reused
- A small amount of water is sent to the CWTP
- Unit is contained within secondary containment
- No record of any spills

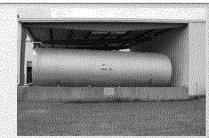




45

AOC-6 Central MaintenanceShop Used OilStorage Vessel

- Used OilStorageVessel holds 15,000gallonsoperated since 1994
- FPC Texas is registered with the TCEQ as a Used OilCollection Center
- Inspected weekly Secondary containmentdikesize is 31,626 gallons
- No record of any spillsfrom this area
- There is no evidence of cracks or spillswithinthetank's secondary containment
- No evidence of surfacestainingor stressed vegetationoutsideof the secondary containment

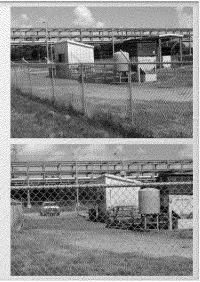




TETRATECH

AOC-6 Central Maintenance Shop and Maintenance Waste Wash Down Pad and Oil-Water Separator

- Washdown pad and oil-water separator (OWS)areconsidered one unit
- Oilbrought tounit by tanker and drums
- Oilcollected is soldas used oil
- Wastewateris treated by theCWTP
- OWSis listedin theTPDES applicationandis authorizedby the TPDES permit
- There are areas of residualsurface staininginthe wash down padarea
- No stainingor stressed vegetation outsideof thewash down pad

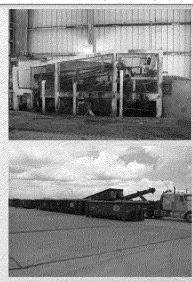




47

AOC-7 (NOR #'s 27, 36, 37, 40, and 49) Combined Wastewater Treatment Plant (CWTP)

- CWTPUnit (NOR40)began operationsin September 1993
- Treats inorganicand organic wastewater priorto discharge
- Bio FilterPress (NOR27 & 36) and theRoll-offContainer StorageArea (NOR37 & 49) – bio-solids
- Sludgefrompress is handled as a Class 2 nonhazardous waste
- Stored inroll-offsinthe container storagearea priorto off-sitedisposal
- EffluentdischargedintoLavacaBay as a permitted(TPDES) point source
- The CWTPunit is withinconcrete containment
- No record of any spills



TETRATECH

Corrective Action Objectives

- EPA developed four CAOs for the pre-1990 area.
- In general, these CAOs appear to be appropriate in the event that impacted soil and/or groundwater is identified in the expansion areas identified in Exhibit 1.

49



CAO 1 - Contain GW

The groundwater cleanup objective is to contain the plume, rather than return the groundwater to its maximum beneficial use throughout the plume. The groundwater point of compliance (POC) for FPC will be at the Facility boundary (includingthe former Brookings property), where concentrations of chemicals of concern must be less than or equal to the maximum contaminant limits (MCLs) for drinkingwater. (In the event an MCL is not establishedfor a chemical of concern, a risk-based action level will be developed.)



CAO 2 – Source Removal/Treatment

To support the final groundwater cleanup objective, FPC-TX must remove or treat source material in soils and/or groundwater to the extent practicable. Using the TRRP, soils with concentrationsof COCs in excess of the soil saturation limit (C_{sat}) must be addressed, and groundwater with concentrationsof COCs in excess of 1% solubilitymust be addressed through removal or treatment.

51



CAO 3 – Worker Protection

For the protection of on-site workers dermal contact or ingestion of COCs in soils, FPC-TX will control or mitigate risks to appropriateTRRP industrial screening levels for surface and subsurface soils. Using TRRP guidance, risk associated with soil concentrations excess of the appropriateTRRP PCL will be mitigated.



CAO 4 - Cox Creek

 The corrective action objective for surface water and sediment is to assure protection of human and ecological receptors by monitoring contaminant levels in surface water features associated with Areas of Concern (AOCs)

53



Closing

- Schedule
 - Due date forInitial Scoping Meeting Summary
- Coordinationwith TCEQ for post-closureapplication
- Communications
- Additional action items

